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CENTRAL INTELLIGENCE AGENCY  
**INFORMATION REPORT**

COUNTRY Portugal/Portuguese India (Goa)

REPORT NO. 00-00-0

SUBJECT Proposed Purchases of Air Communications Equipment

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2. The technical characteristics of the air communications equipment which they requested are quoted below:

(a) "One nondirectional radio beacon.

- (1) It is intended that this nondirectional radio beacon should include one service transmitter and one reserve transmitter with appropriate automatic controls and auxiliary equipment.
- (2) Transmitting type: A1/Ao.  
If an alternate is necessary, the A2/Ao should be quoted. However, the modulation system in this variation must be fairly simple and economical, modulating, for instance, in the screen-grid of the pre-final stage with the final stage in Class C as is usual in equipment of this kind.
- (3) Output power should be provided in the amount of two to three kw delivered at the antenna circuit, or an alternate proposal for about five kw delivered in the antenna circuit.
- (4) Frequency range: 200/400 kc, but the proposal should indicate the frequency stability guaranteed by the manufacturer.
- (5) Antenna: The proposal should include a vertical antenna of between 50 and 60 meters complete with coil, transmission line, lightning rod and luminous signaling.
- (6) Ground system: 2500 meters of smooth copper wire with 2.5 mm diameter or the same quantity of copper ribbon about 15 mm wide and 3/10 of a mm thick.

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- (7) The equipment should be tropicalized finished.
- (8) The identification signal and the transmitting characteristics must observe the specifications of the OACI.
- (9) Power source: Alternating current (50-60 cycles), 110/220 volts, single phase (in cases where the proposals provide for lower power) or 220/380 volts, three phase (for those proposals designating greater power).

(b) "Two VHF transmitters for terminal mobile service

- (1) It is intended that these transmitters be of the usual type which comprise complete transmitting stations (including suitable racks and storage space with one microphone for each).
- (2) Transmitting type: A3.
- (3) Output power: 50 watts (delivered at the antenna)
- (4) Frequency range: 118-132 mcs. (Please indicate the guaranteed frequency stability)
- (5) At present our plans are for single frequency transmitters, however, we shall accept proposals for variable frequency transmitters with either manual or automatic controls.
- (6) Transmitter control should be local and the control mechanism must permit the instantaneous utilization of the transmitters. Bids will be accepted, however, on remote control units, although the cost factor should be borne in mind.
- (7) The equipment should include tropicalized finishing.
- (8) The antenna with reflector should be finished with 50 meters of coaxial cable and connectors.
- (9) Power source: 110/220 Volt, AC single phase (50-60 cycles).

(c) "One VHF transmitter for route mobile service.

- (1) This equipment should include a multi channel transmitter for use in route telephonic service which may also serve as a reserve for the fixed radio telegraphic service. With this transmitter must be furnished one microphone manipulator key and a remote control unit.
- (2) Transmitting type: A1 and A3.
- (3) Output power: About 2-3 kw (delivered at the antenna).
- (4) Frequency range: 2-18 kc (coils must be included).
- (5) Number of channels: 4 - 10. The transmitter must be furnished with a set of 10 crystals and the frequency stability should be guaranteed by the manufacturer.
- (6) Transmitter control: Remote control.
- (7) Tropicalized finish
- (8) Power source: 220/380 Volt, AC three phase.

(d) "One HF transmitter for fixed service.

- (1) This should be a multi channel transmitter with each channel having an output for an antenna, and should be independent and balanced for use in manual radio telegraphic service.
- (2) Transmitting type: A1

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- (3) Output power: 2-3 kw (delivered at the antenna). The alternate proposal should be submitted for five kw transmitters (delivered at the antenna).
  - (4) Frequency range: 2-18 mcs (including coils)
  - (5) Number of channels: Four with the possibility that at least two of them can work simultaneously. The transmitters should be furnished with a set of 10 crystals and the frequency stability should be guaranteed.
  - (6) Transmitter control: Remote control.
  - (7) Tropicalized finishing.
  - (8) Power source: 220/380 volts, AC three phase.
- (e) "Two VHF receivers (one of which is designed for fixed tuning and one for variable tuning).
- (1) Frequency range: 118-132 mcs.
  - (2) The antenna of each receiver should be furnished with 50 meters of coaxial cables and connectors.
  - (3) Tropicalized finishing.
  - (4) Power source: 110/220 volts, AC single phase.
- (f) "Three HF receivers with variable tuning.
- (1) Frequency range: 2-30 mcs with one receiver covering the range from 200-400 kc.
  - (2) The receivers should be equipped with the following antennas:
    - a. 75 ohms coaxial
    - b. Single wire 150 ohms
    - c. Double wire 600 ohms
  - (3) Tropicalized finishing."

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